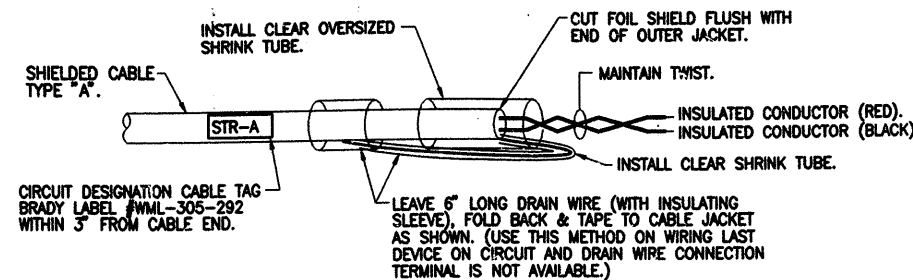


**TYPICAL SHIELD/DRAIN INSULATING METHOD "A"**

N.T.S.



**TYPICAL SHIELD/DRAIN INSULATING METHOD "B"**

N.T.S.

**NOTES:**

1. FOR LEGEND/SPECIFICATION, CIRCUIT LEGEND, TERMINATION LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E-1.
2. WIRING DIAGRAMS SHOWN ARE SCHEMATIC REPRESENTATIONS FOR CONNECTIONS ONLY. FOR DEVICE INSTALLATION, REFER TO INSTALLATION DETAILS ON DRAWING E-2.
3. INSULATE SHIELD & DRAIN WIRE AS SHOWN ON TYPICAL SHIELD/DRAIN INSULATING METHOD.
4. SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS, ETC..

**THE PORT AUTHORITY**  
OF NEW YORK AND NEW JERSEY

*[Signature]*  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
CHIEF ELECTRICAL ENGINEER

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. *WTC-861.573* IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE *11/16/99* *[Signature]*  
CONTRACT MANAGER/ARCH.  
DATE *11/19/99* *[Signature]*  
ENGINEERING PROGRAM MGR.

No. Date Revision Approved

**ENGINEERING DEPARTMENT**

**WORLD  
TRADE  
CENTER**

**ELECTRICAL**

Title  
**FIRE ALARM SYSTEM  
DEVICE UPGRADE  
PHASE III  
5 WTC 3rd, 4th, 5th & 6th FLOORS**

**FIRE ALARM DEVICE  
WIRING DIAGRAMS  
AND SHIELD/DRAIN  
INSULATION DETAIL**

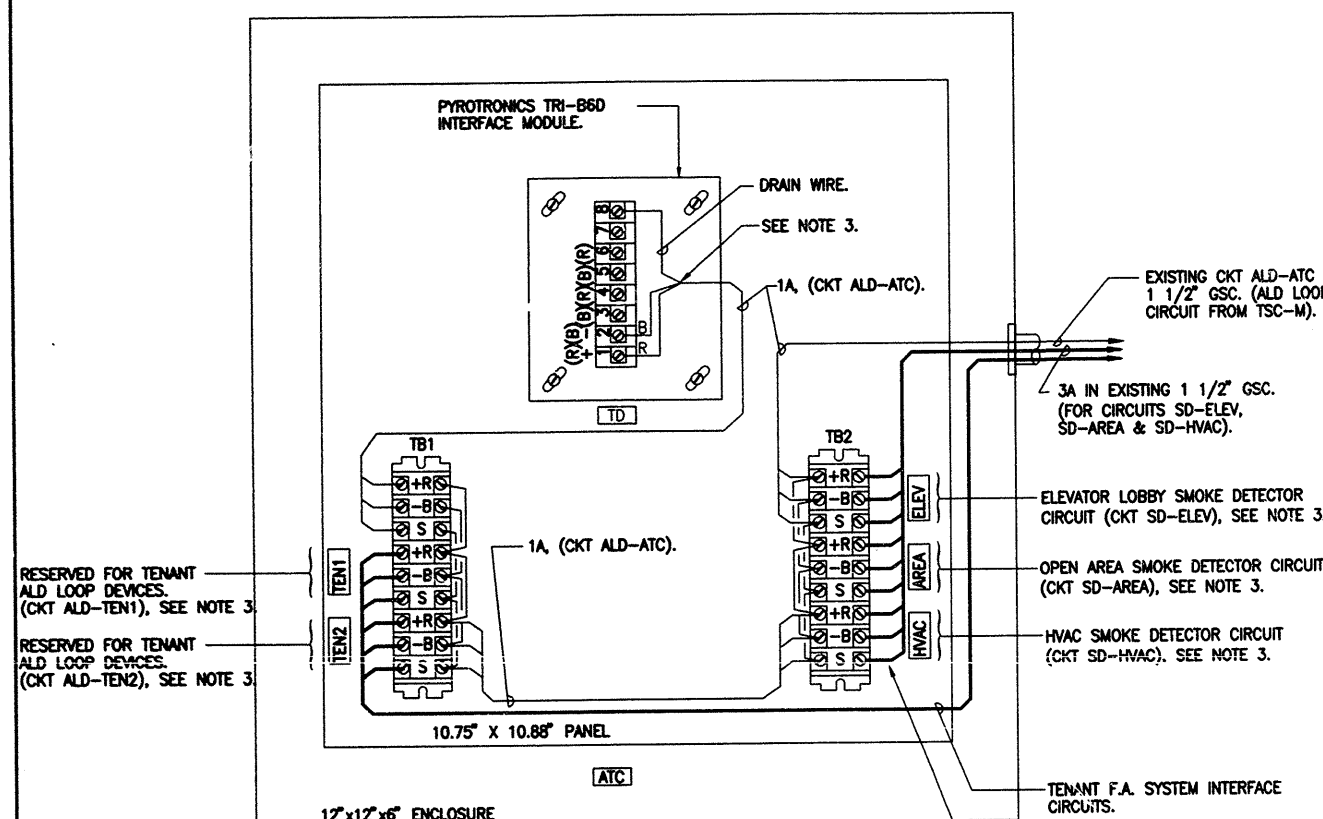
This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

Designed by *FELDMAN* Drawn by *ROYZMAN* Checked by *A.S.*

NOVEMBER 26, 1999  
Date

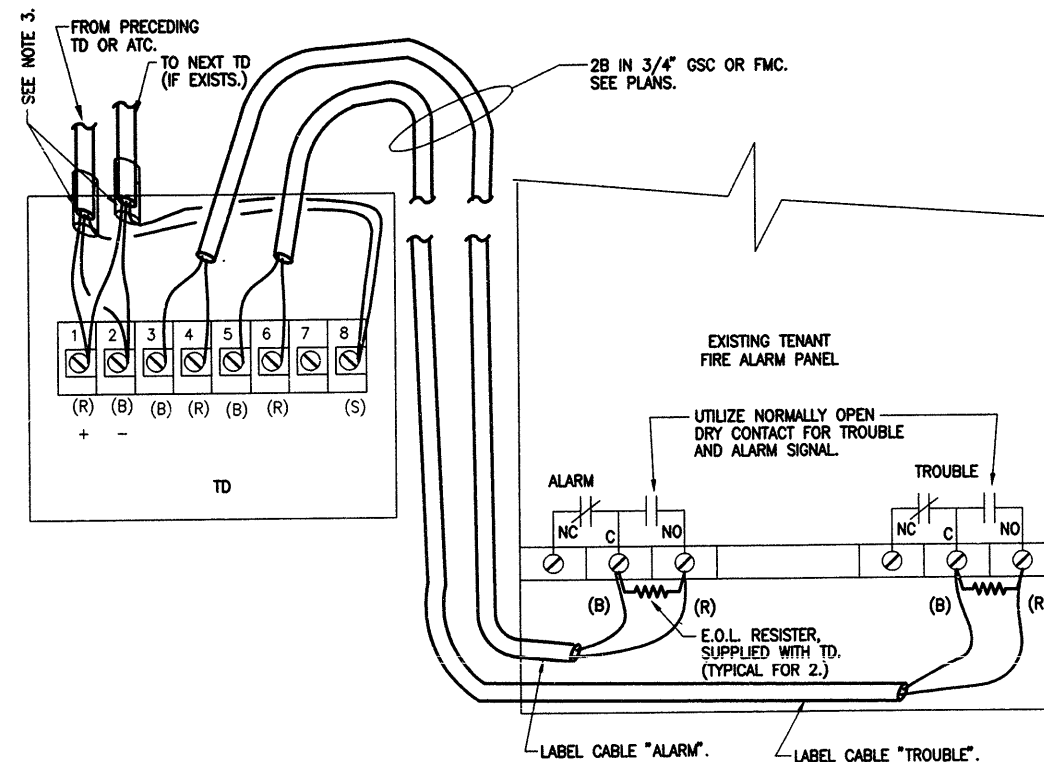
WTC-861.573  
Contract Number

**E-3**  
Drawing Number



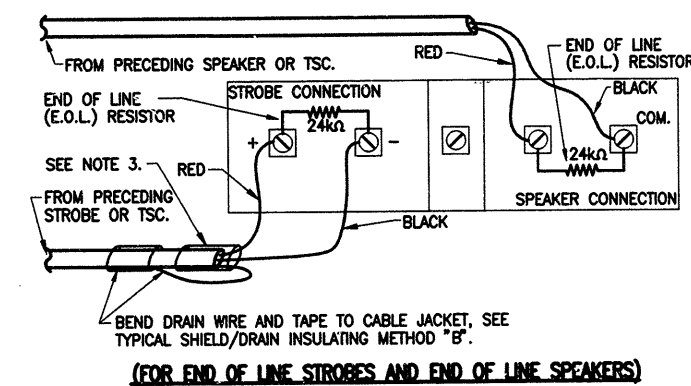
**ATC CABINET DETAIL "C"  
BLOCK WIRING DIAGRAM**

N.T.S.

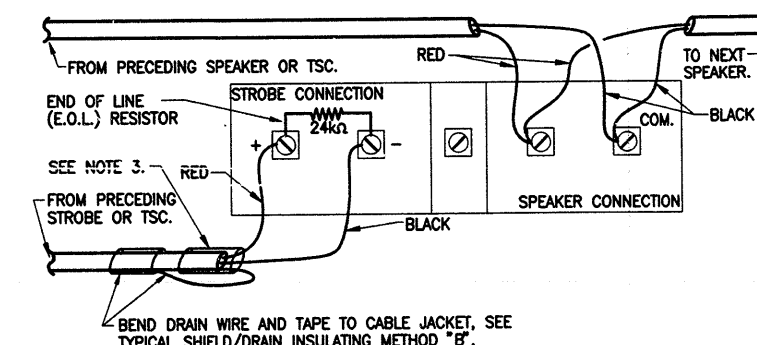


**TYPICAL TD WIRING DIAGRAM OF TENANT F.A. SYSTEM INTERFACE**

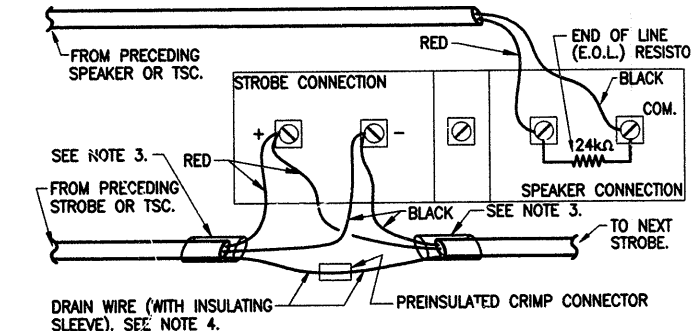
N.T.S.



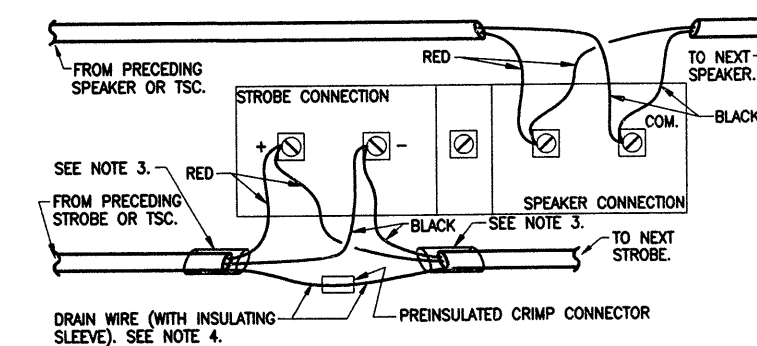
**(FOR END OF LINE STROBES AND END OF LINE SPEAKERS)**



**(FOR END OF LINE STROBES AND ALL SPEAKERS EXCLUDING END OF LINE SPEAKERS)**



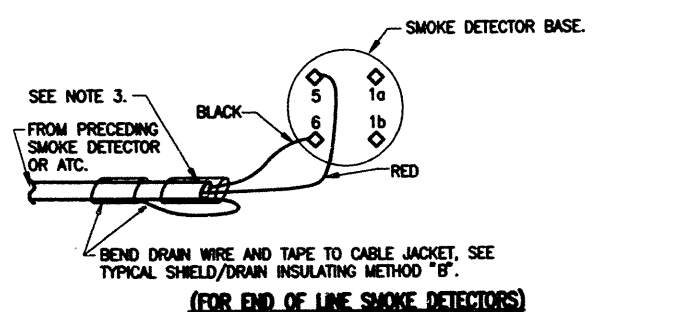
**(FOR ALL STROBES EXCLUDING END OF LINE STROBES AND END OF LINE SPEAKERS)**



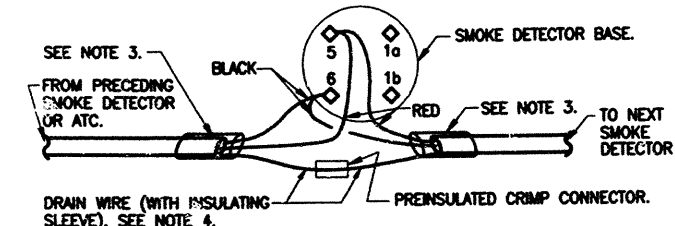
**(FOR ALL STROBES EXCLUDING END OF LINE STROBES AND ALL SPEAKERS EXCLUDING END OF LINE SPEAKERS)**

**TYPICAL STROBE/SPEAKER COMBINATION UNIT WIRING DIAGRAM**

N.T.S.



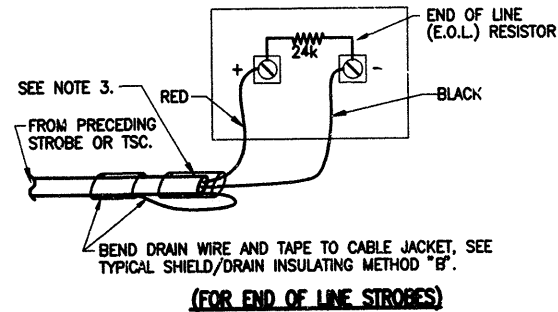
**(FOR END OF LINE SMOKE DETECTORS)**



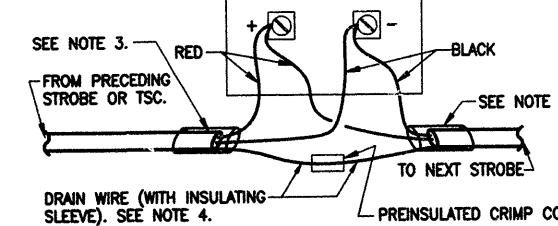
**(FOR ALL SMOKE DETECTORS EXCLUDING END OF LINE SMOKE DETECTORS)**

**TYPICAL SMOKE DETECTOR WIRING DIAGRAM**

N.T.S.



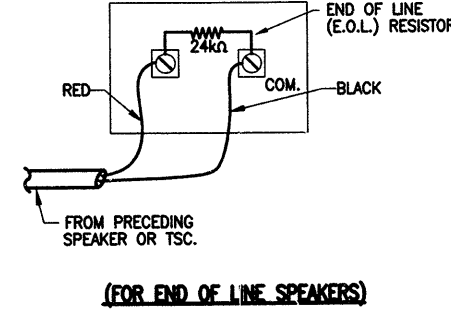
**(FOR END OF LINE STROBES)**



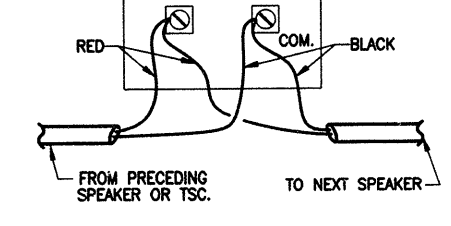
**(FOR ALL STROBES EXCLUDING END OF LINE STROBES)**

**TYPICAL STROBE WIRING DIAGRAM**

N.T.S.



**(FOR END OF LINE SPEAKERS)**



**(FOR ALL SPEAKERS EXCLUDING END OF LINE SPEAKERS)**

**TYPICAL SPEAKER WIRING DIAGRAM**

N.T.S.